## LBNE Collaboration Statement Concerning the P5 Recommendation for an International Long-Baseline Neutrino Facility

## 18 July 2014

The US is proposing to host a world-leading neutrino program including a grand vision for a long-baseline neutrino facility (LBNF), which would be an internationally designed, coordinated and funded program. The existing LBNE collaboration (518 members from 88 institutes in 8 countries) welcomes the recommendations of the P5 panel and recognizes the need to form a new international collaboration to turn this vision into reality. We are looking forward to engaging with all interested parties to realize the P5 vision, and in particular with the international neutrino community through the process initiated by Fermilab and the US DOE.

The LBNE collaboration has developed a strong physics case and technological designs for a facility as described in the LBNE Science Opportunities Document (arXiv:1307.7335). This unique world-class neutrino facility would meet the scientific goals of probing CP violation, determining the mass hierarchy, and testing the three neutrino oscillation paradigm with high precision, as well as searching for nucleon decay and being sensitive to supernova neutrinos.

We look forward to the discussion and evaluation of all options to optimize the scientific reach of the international LBNF. We believe that the configuration presented by the LBNE collaboration can serve as a starting point for these discussions. Timeliness is important for the competitiveness of LBNF and to make it attractive to the global neutrino community. It is important that any reformulation not lead to significant delays in physics.

The P5 report endorses a world-leading neutrino program hosted by Fermilab. We look forward to engaging with the worldwide community to pursue this great opportunity.